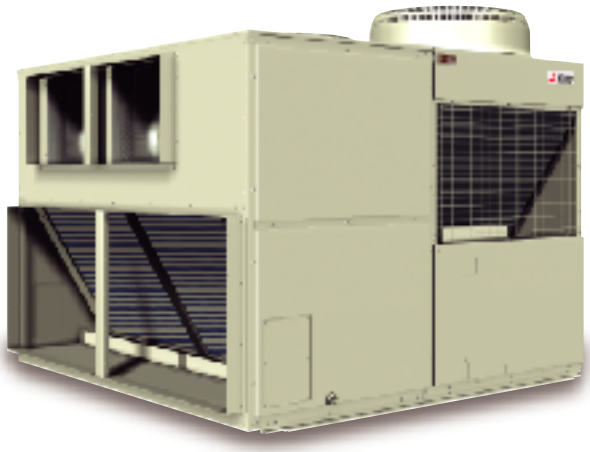
MITSUBISHI ELECTRIC

Changes for the Better

AIR COOLED SPLIT TYPE AIR CONDITIONERS

R407C

8 / 10HP



16 / 20HP

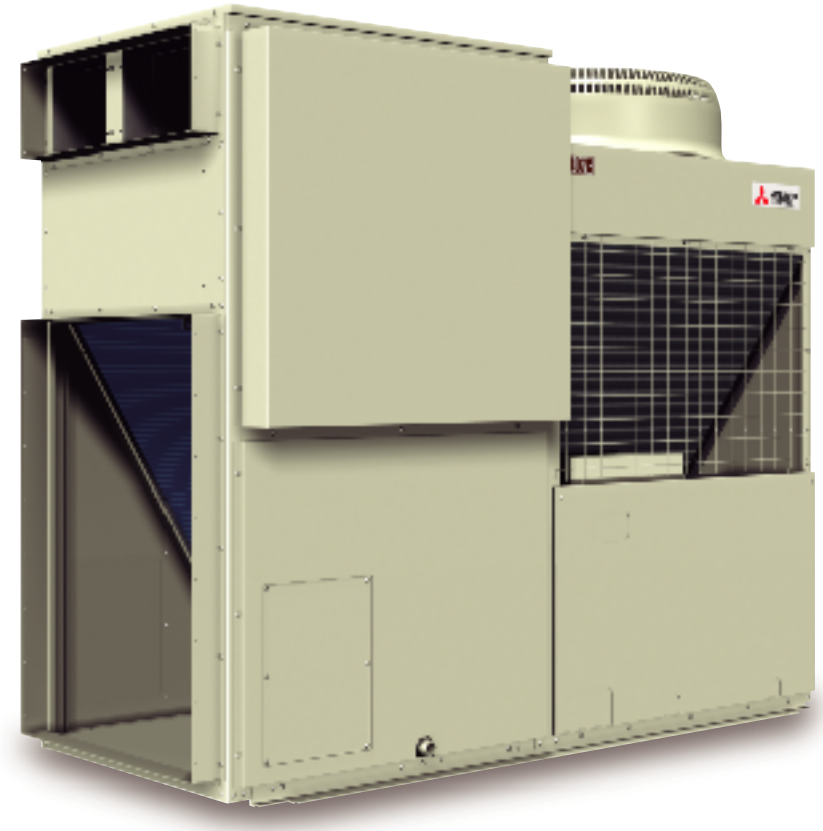
8 / 10 / 16 / 20 HP Systems

Simple and Effective Control

Interactive "A-Control" makes system management easier than ever. Features like connectivity to building air conditioning systems, quick, precise selection of indoor unit functions and a self-diagnostic system for indoor/outdoor units reflect Mitsubishi Electric's promise to provide optimum comfort and performance.

Compact, Functional System

Advanced component and system design design technologies have been introduced to produce some of the smallest and lightest rooftop air conditioning systems in the market.



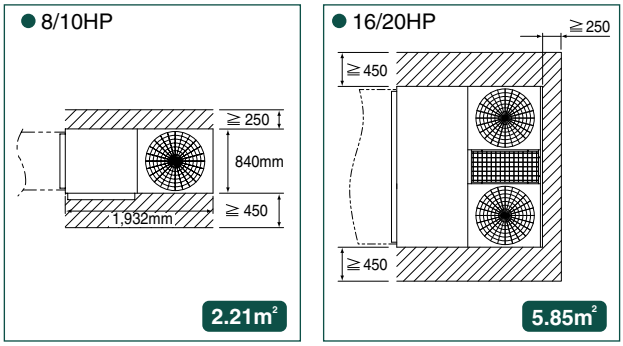
FEATURES

Highly Efficient operation

The EER (Energy Efficiency Ratio) on These models is greatly improved by revised design specifications and by being manufactured stringently to Mitsubishi Electric high quality standards.

Minimum Floor Space

The PRH series feature a compact design and has been succeeded in reducing more floor space.

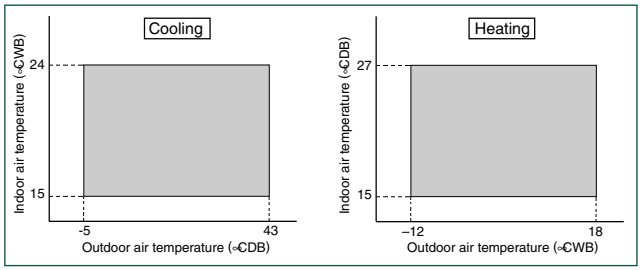


Labor Saving Installation

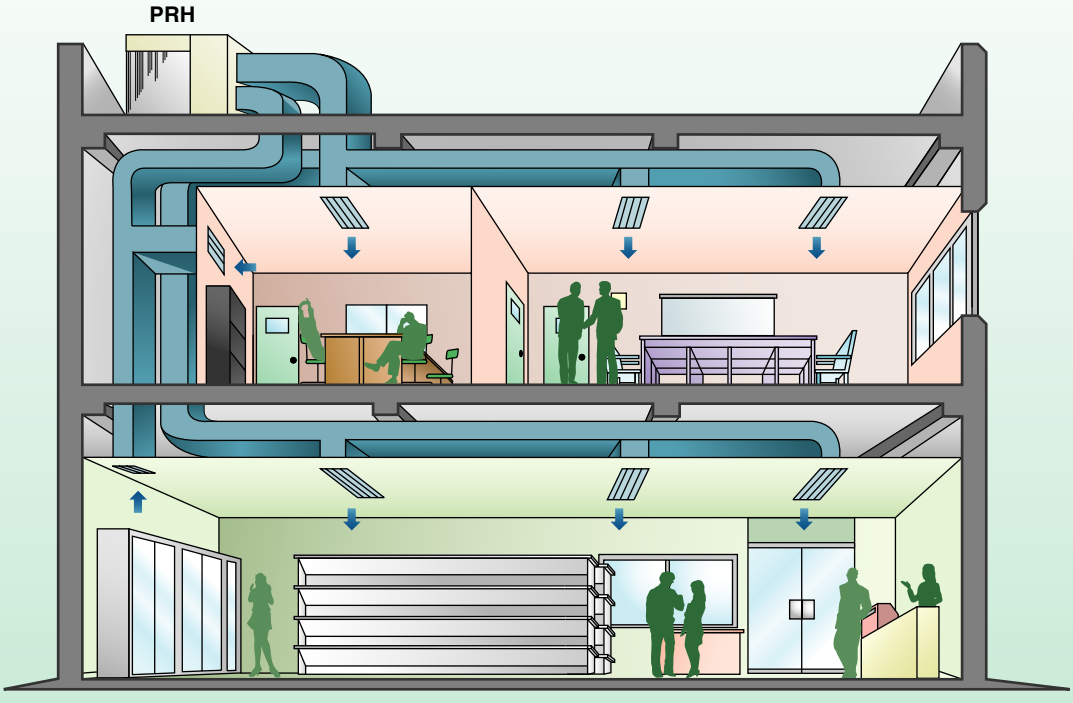
Because of the single unit configuration, all refrigeration work can be omitted.
The unit operation can commence immediately after connection to the power supply, drain piping, ducting and control system.

Confort Cooling and Heating

The PRH series are designed to provide effective cooling and heating comfort with wide range of outside temperature condition.

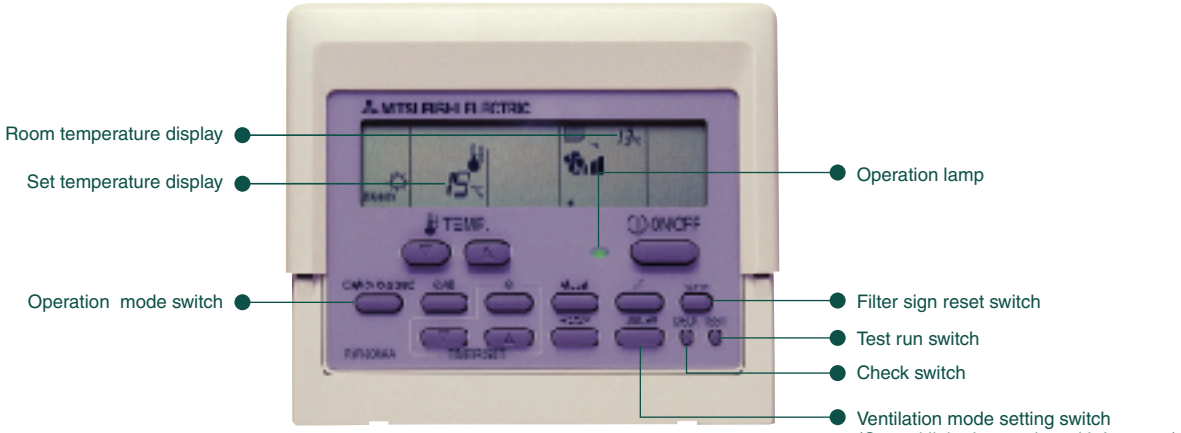


TYPICAL INSTALLATION EXANPLE



Flexible Function Setting from Remote Controllers

Remote Controllers can now be used for the selection and setting of functions such as fan speed, air outlets, vane setting etc. which were previously set from the indoor unit base board. Setting canges can also be made very easily at the installation stage.

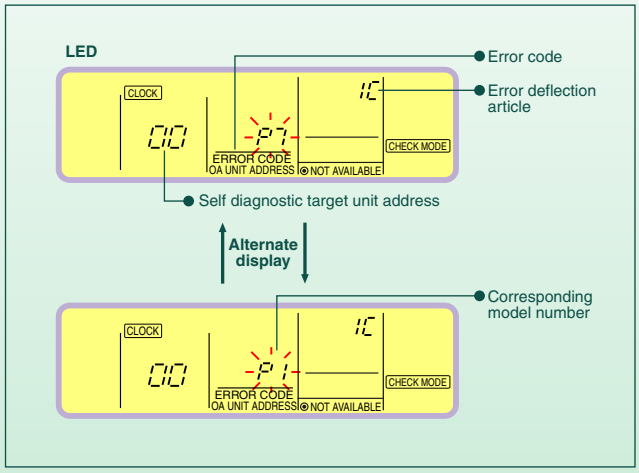


Wired remote controller (PL/PEHD/PEAD/PC/PS Series)

Full System Diagnosis

"A-Control" interactivity between indoor and outdoor units enables the system's self-diagnostic function to be used for examining the entire system; even abnormalities in the outdoor unit will be shown on the remote controller display. Improvements in display details make more accurate and timely responses for maintenance and repair possible.

Remote display alternately shows error code and corresponding model number



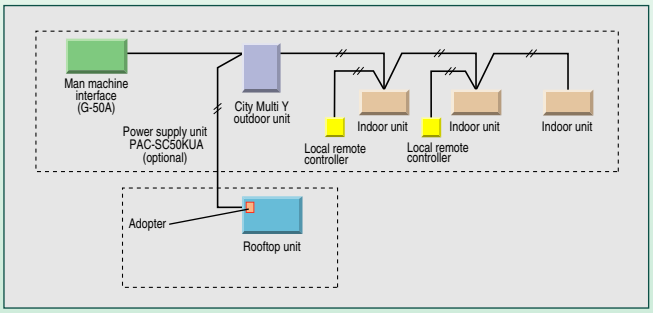
Building Management System Compatibility

"A-Control" technology offers compatibility so that systems of the series can operate as part of the MELANS building air conditioning management system. Once connected by a special adapter (optional), the systems respond to commands given from the MELANS control center. Remote controller can also be used for general system control.

Other Functions

- Non-polarized, dual-core remote control wiring
- Control of up to 16 units
- Use of 2 remote controllers per group
- Independent operation of each unit
- Built-in thermostat

M-NET (MELANS) connection



SPECIFICATIONS

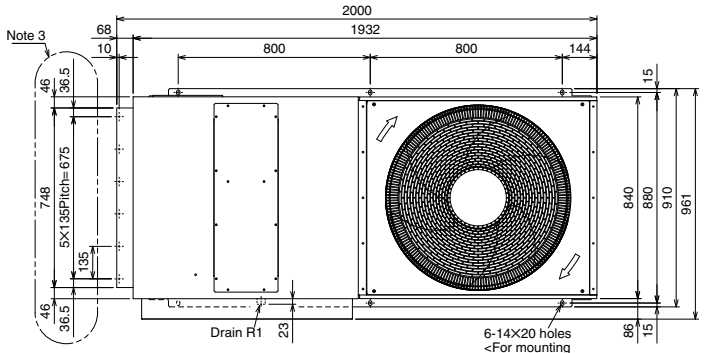
Specifications of air-source heat pump type packaged air conditioner (Rooftop unit)

Model name			PRH-P8MYA		PRH-P10MYA		PRH-P16MYA		PRH-P20MYA	
Mode			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity		kW	20.9	23.7	26.0	30.5	41.8	47.4	52.0	61.0
		kcal/h	18,000	19,000	22,400	26,200	36,000	40,800	44,800	52,400
		Btu/h	71,430	75,400	88,890	104,000	142,860	150,800	177,780	208,000
Refrigerant			R407C							
Power source			3N~380/400/415V 50Hz							
ElectricalPower	consumption	kW	8.12	8.02	10.22	9.82	pending	pending	pending	pending
characteristics	Operating current	A	14.7	14.5	18.8	18.2	pending	pending	pending	pending
Remote controller temperature setting range			19℃ to 30℃	17℃ to 28℃	19℃ to 30℃	17℃ to 28℃	19℃ to 30℃	17℃ to 28℃	19℃ to 30℃	17℃ to 28℃
Indoor-side air flow direction			Convertible(Side flow<factory setting> or top flow)							
Indoor-side fan	Type × Quantity		Sirrocco fan × 2							
	Air flow rate	CMM	70		90		140		180	
	External static pressure	Pa	100		100		200		200	
	Motor type		Three-phase induction motor							
	Motor output	kW	1.1		1.5		2.2		3.7	
Indoor-side heat exchanger type			Cross fin							
Outdoor-side fan	Type × Quantity		Propeller fan × 1				Propeller fan × 2			
	Air flow rate	CMM	185				185 × 2			
	Motor type		Three-phase induction motor							
	Motor output	kW	0.38				0.38 × 2			
Outdoor-side heat exchanger type			Cross fin							
Compressor	Type		Hermetic							
	Motor output	kW	5.5		7.5		5.5 × 2		7.5 × 2	
	Oil type		FVC68D(ether oil)							
	Crankcase heater	kW	0.05 (240V)				0.05 (240V) × 2			
External finish			Polyester powder (MUNSELL 5Y8/1)							
External dimension	H × W × D	mm	1,715× 2,000 × 926				1,735× 2,000 × 2,130			
Air filter			Field supplied							
Drain pipe Thread			R1							
Noise level		dB(A)	59		60		62		63	
Net weight		kg	407		412		pending		pending	
Protection devices			High pressure switch , Low pressure switch , fuse Over current relay(compressor , indoor-side fan motor) inner thermal switch in outdoor-side fan motor							

Note
1. Cooling and Hetaing capacity indicates the maximum value at operation under the following condition.
   Cooling Indoor : 27℃DB/19℃WB Outdoor : 35℃DB
   Heating Indoor : 20℃DB Outdoor : 7℃DB/6℃WB
2. The operating noise measuring point is 1m from the bottom of unit (1m from the front of the unit) in an anechoic room. (Noise level is A-scale value)
3. Refrigerant charge volumes are factory charged.
4. The range of working voltage is with in ±10% voltage of power supply.
5. Specification subject to change without notice.

EXTERNAL DIMENSIONS

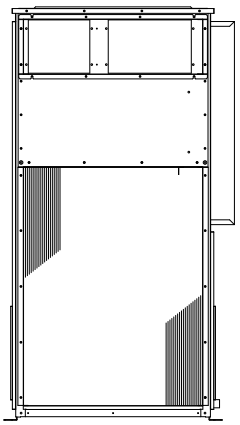
• ModelsPRH-P8MYA/P10MYA



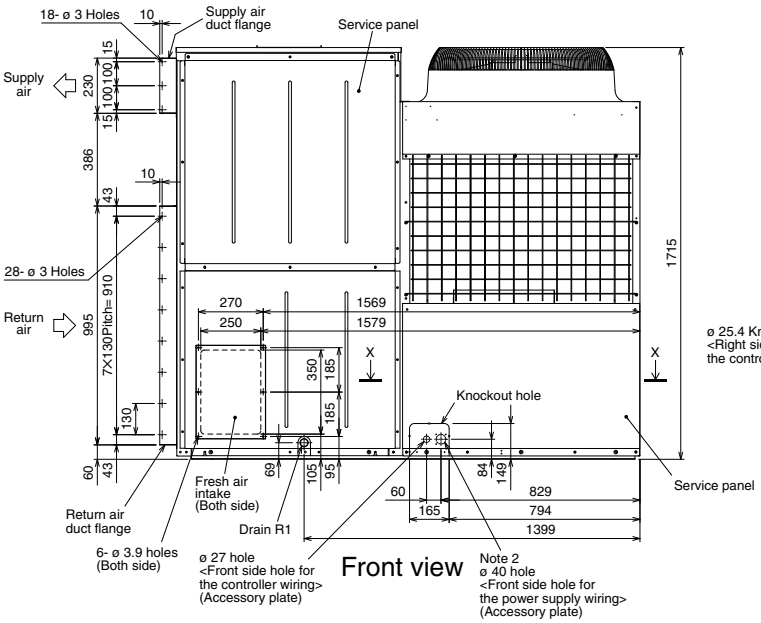
Top view

<Accessory>
- Conduit mounting plate (Painted the same color as the unit body)
  ø 27·····1pc.
  ø 34·····1pc.
  ø 40 and ø 27·····1pc.
- Tapping screw 4×12·····4pcs.

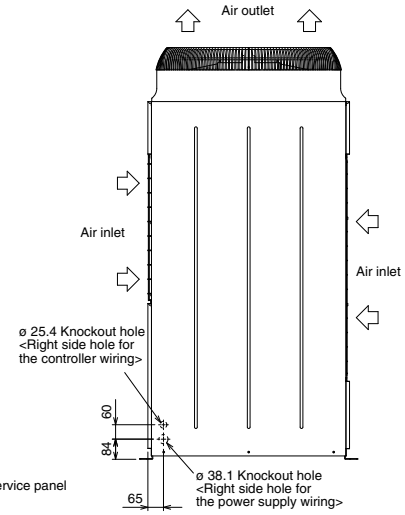
Note 1. It is possible to change to ø 27 or ø 34 by selecting the conduit mounting plate.
2. The hole size can be selected to ø 27 or ø 34 or ø 40 by selecting the conduit mounting plate.
3. These dimension of supply air and return air duct flange are the same.



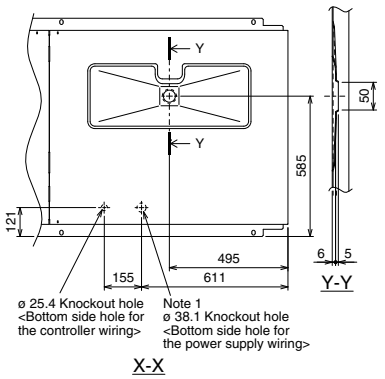
Left side view



Front view



Right side view

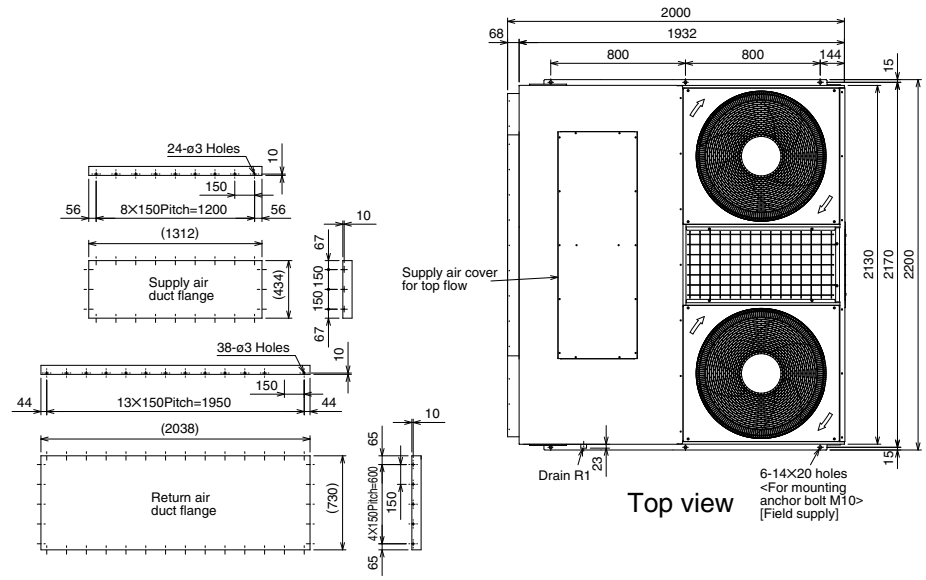


X-X

Y-Y

EXTERNAL DIMENSIONS

• ModelsPRH-P16MYA/P20MYA



Top view

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  (Painted the same color as the unit body)
  ø 27·····1pc.
  ø 34·····1pc.
  ø 40 and ø 27·····1pc.
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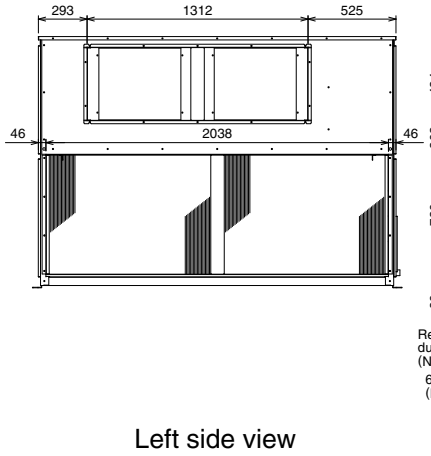
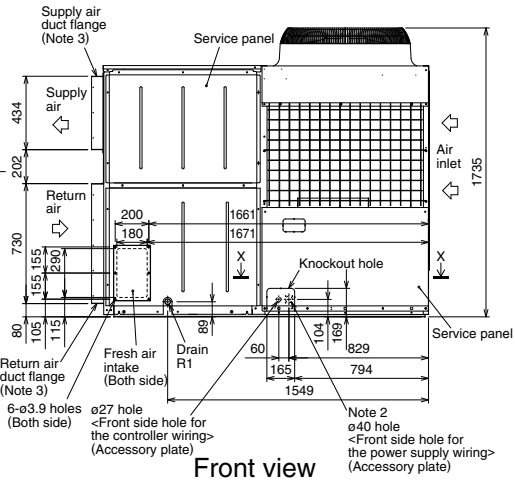
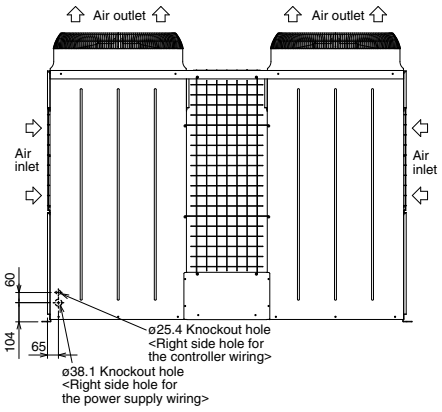


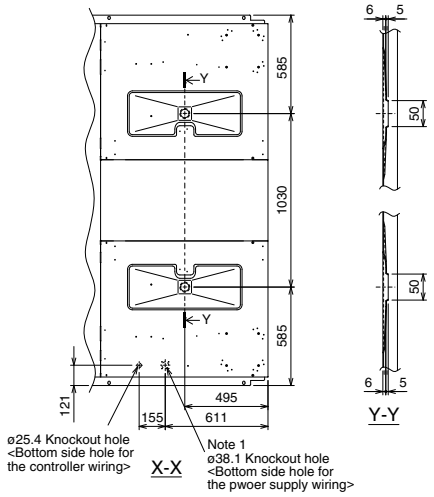
Left side view



Front view



Right side view



X-X

Y-Y

NEXT GENERATION CONTROLLER G-50A

Up to 50 units of packaged air conditioners can freely be monitored and operated!
Furthermore, it has enabled the Monitoring and Operation Via a Web Browser on a Personal Computer connected to it using a LAN or telephone line!

First in the industry With Web Server Functions!

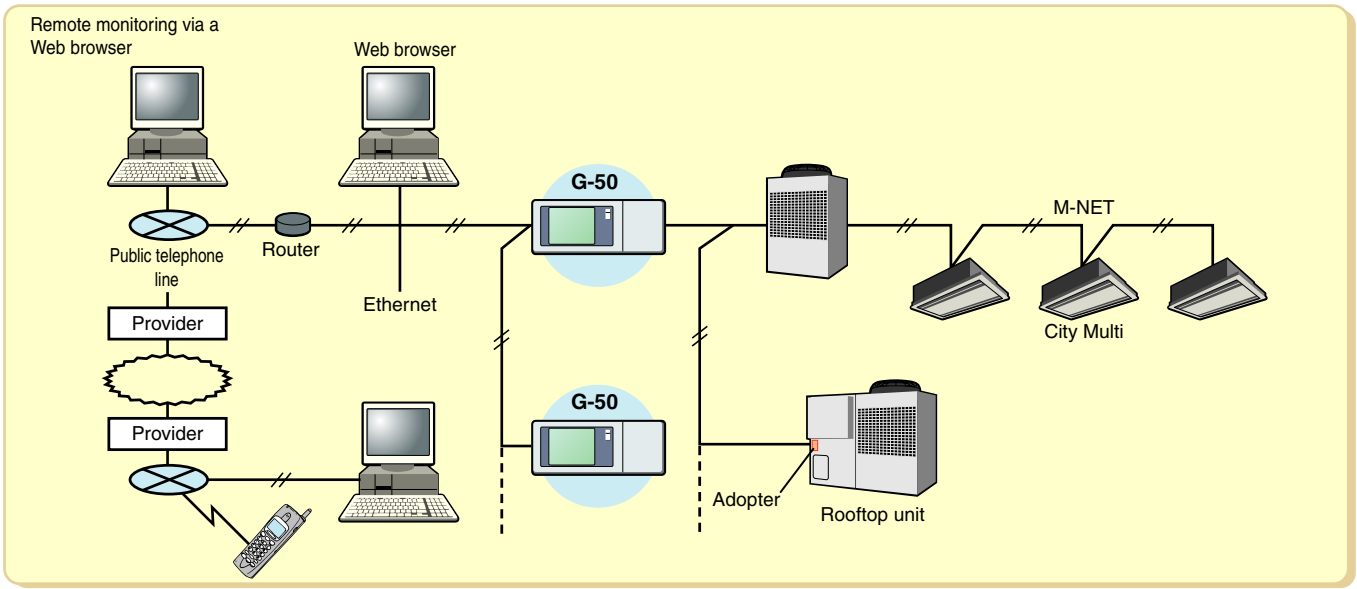
- **Simple and Flexible**
  This new generation controller is suitable for small to large systems with simple to complex functions available.
- **Web Browser**
  Enables monitoring and operation of air conditioning units using a PC with Microsoft Internet Explorer.
- **Remote Access**
  Allows users to remotely monitor and operate the air conditioning units using a PC connected to a telephone line.
- **Auto Alarm**
  In the case of any malfunction, necessary information will be sent to a mobile phone and/or personal computer by e-mail.
- **Easy to Upgrade**
  Various new functions will be introduced gradually and can easily be down loaded into any existing G-50A.

Example: Energy Monitoring
Demand Control
Annual Schedule

Example of display icons (air conditioner icons)

	Operation		In timer operation
	Stop		Lossnay on
	Occurrence of abnormality		Under energy-saving control
	Operation/ Occurrence of a filter sign		

System Structure



MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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